# STIC Biotechnology Systems Branch

# RAW SEQUENCE LISTING ERROR REPORT

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:**

Application Serial Number: 10/526,475B
Source: IFW9
Date Processed by STIC: 10/5/06

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**
**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221**

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

**http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**http://www.uspto.gov/ebc/efs/downloads/documents.htm**>, **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):** U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

IFWO

**RAW SEQUENCE LISTING** DATE: 10/05/2006
PATENT APPLICATION: **US/10/526,475B** TIME: 12:39:31

Input Set : **A:\JJ 5203.ST25.txt**
Output Set: **N:\CRF4\10052006\J526475B.raw**

```
     3 <110> APPLICANT: Arndt, Gregory Martin
     4       Cairns, Murray
     5       Tran, Nham
     6       Lai, Angela
     8 <120> TITLE OF INVENTION: METHODS USING dsDNA TO MEDIATE RNA INTERFERENCES (RNAI)
    10 <130> FILE REFERENCE: JJ 5203
    12 <140> CURRENT APPLICATION NUMBER: US 10/526,475B
C--> 13 <141> CURRENT FILING DATE: 2005-03-03
    15 <150> PRIOR APPLICATION NUMBER: PCT/AU2003/001142
    16 <151> PRIOR FILING DATE: 2003-09-04
    18 <150> PRIOR APPLICATION NUMBER: AU 2003901481
    19 <151> PRIOR FILING DATE: 2003-03-26
    21 <150> PRIOR APPLICATION NUMBER: AU 2002951224
    22 <151> PRIOR FILING DATE: 2002-09-04
    24 <160> NUMBER OF SEQ ID NOS: 32
    26 <170> SOFTWARE: PatentIn version 3.3
    28 <210> SEQ ID NO: 1
    29 <211> LENGTH: 58
    30 <212> TYPE: DNA
    31 <213> ORGANISM: Artificial Sequence
    33 <220> FEATURE:
    34 <223> OTHER INFORMATION: Synthetic oligonucleotide
    37 <220> FEATURE:
    38 <221> NAME/KEY: misc_feature
    39 <222> LOCATION: (18)..(18)
    40 <223> OTHER INFORMATION: u = deoxyribouridine base
    42 <400> SEQUENCE: 1
    43 tgtggtgatt cgtcgacuga ctccagtggt aatctacgtc gagtctcttg aactcgac      58
    46 <210> SEQ ID NO: 2
    47 <211> LENGTH: 17
    48 <212> TYPE: DNA
    49 <213> ORGANISM: Artificial Sequence
    51 <220> FEATURE:
    52 <223> OTHER INFORMATION: Synthetic oligonucleotide
    54 <400> SEQUENCE: 2
    55 tgtggtgatt cgtcgac                                                  17
    58 <210> SEQ ID NO: 3
    59 <211> LENGTH: 19
    60 <212> TYPE: DNA
    61 <213> ORGANISM: Artificial Sequence
    63 <220> FEATURE:
    64 <223> OTHER INFORMATION: Synthetic oligonucleotide
    66 <400> SEQUENCE: 3
```

Does Not Comply
Corrected Diskette Needed

see pp 5-6

**RAW SEQUENCE LISTING** DATE: 10/05/2006
PATENT APPLICATION: **US/10/526,475B** TIME: 12:39:31

Input Set : **A:\JJ 5203.ST25.txt**
Output Set: **N:\CRF4\10052006\J526475B.raw**

```
    67 gactccagtg gtaatctac                                              19
    70 <210> SEQ ID NO: 4
    71 <211> LENGTH: 21
    72 <212> TYPE: DNA
    73 <213> ORGANISM: Artificial Sequence
    75 <220> FEATURE:
    76 <223> OTHER INFORMATION: Synthetic oligonucleotide
    78 <400> SEQUENCE: 4
    79 gtcgagtctc ttgaactcga c                                           21
    82 <210> SEQ ID NO: 5
    83 <211> LENGTH: 58
    84 <212> TYPE: DNA
    85 <213> ORGANISM: Artificial Sequence
    87 <220> FEATURE:
    88 <223> OTHER INFORMATION: Synthetic oligonucleotide
    91 <220> FEATURE:
    92 <221> NAME/KEY: misc_feature
    93 <222> LOCATION: (18)..(18)
    94 <223> OTHER INFORMATION: u = deoxyribouridine base
    96 <220> FEATURE:
    97 <221> NAME/KEY: misc_feature
    98 <222> LOCATION: (19)..(37)
    99 <223> OTHER INFORMATION: n = a, c, g, or t
   101 <400> SEQUENCE: 5
W--> 102 tgtggtgatt cgtcgacunn nnnnnnnnnn nnnnnnngtc gagtctcttg aactcgac    58
   105 <210> SEQ ID NO: 6
   106 <211> LENGTH: 52
   107 <212> TYPE: DNA
   108 <213> ORGANISM: Artificial Sequence
   110 <220> FEATURE:
   111 <223> OTHER INFORMATION: Synthetic oligonucleotide
   113 <400> SEQUENCE: 6
   114 tcgaccggca agctgaccct gaagttcgct tcagggtcag cttgccgttt tt          52
   117 <210> SEQ ID NO: 7
   118 <211> LENGTH: 51
   119 <212> TYPE: DNA
   120 <213> ORGANISM: Artificial Sequence
   122 <220> FEATURE:
   123 <223> OTHER INFORMATION: Synthetic oligonucleotide
   125 <400> SEQUENCE: 7
   126 ctagaaaaac ggcaagctga ccctgaagcg aacttcaggg tcagcttgcc g           51
   129 <210> SEQ ID NO: 8
   130 <211> LENGTH: 31
   131 <212> TYPE: DNA
   132 <213> ORGANISM: Artificial Sequence
   134 <220> FEATURE:
   135 <223> OTHER INFORMATION: Synthetic oligonucleotide
   137 <400> SEQUENCE: 8
   138 gcgcctcgag atagggaatt cgagctcggt a                                31
```

RAW SEQUENCE LISTING DATE: 10/05/2006
PATENT APPLICATION: US/10/526,475B TIME: 12:39:31

Input Set : A:\JJ 5203.ST25.txt
Output Set: N:\CRF4\10052006\J526475B.raw

<210> SEQ ID NO: 9
<211> LENGTH: 30
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Synthetic oligonucleotide
<400> SEQUENCE: 9
gcgcggatcc ttgtaaacga cggccagtgc 30

<210> SEQ ID NO: 10
<211> LENGTH: 45
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Synthetic oligonucleotide
<400> SEQUENCE: 10
tcgactcaag ttataccctt gccgatagac tgcttacatt taaat 45

<210> SEQ ID NO: 11
<211> LENGTH: 45
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Synthetic oligonucleotide
<400> SEQUENCE: 11
ctagatttaa atgtaagcag tctatcggca agggtataac ttgag 45

<210> SEQ ID NO: 12
<211> LENGTH: 63
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Synthetic oligonucleotide
<400> SEQUENCE: 12
cggtgattcc gtcgaccaaa aagactccag tggtaatcta ctttttctag aggtaacagg 60
cgc 63

<210> SEQ ID NO: 13
<211> LENGTH: 17
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Synthetic oligonucleotide
<400> SEQUENCE: 13
gcgcctgtta cctctag 17

<210> SEQ ID NO: 14
<211> LENGTH: 34
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Synthetic oligonucleotide
<400> SEQUENCE: 14
gcctgcagga tatttgcatg tcgctatgtt ctgg 34

RAW SEQUENCE LISTING DATE: 10/05/2006
PATENT APPLICATION: US/10/526,475B TIME: 12:39:31

Input Set : A:\JJ 5203.ST25.txt
Output Set: N:\CRF4\10052006\J526475B.raw

215 <210> SEQ ID NO: 15
216 <211> LENGTH: 34
217 <212> TYPE: DNA
218 <213> ORGANISM: Artificial Sequence
220 <220> FEATURE:
221 <223> OTHER INFORMATION: Synthetic oligonucleotide
223 <400> SEQUENCE: 15
224 gctctagaga gtggtctcat acagaactta taag 34
227 <210> SEQ ID NO: 16
228 <211> LENGTH: 34
229 <212> TYPE: DNA
230 <213> ORGANISM: Artificial Sequence
232 <220> FEATURE:
233 <223> OTHER INFORMATION: Synthetic oligonucleotide
235 <400> SEQUENCE: 16
236 tcgacaaaaa cggcaagctg accctgaagt tttt 34
239 <210> SEQ ID NO: 17
240 <211> LENGTH: 35
241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial Sequence
244 <220> FEATURE:
245 <223> OTHER INFORMATION: Synthetic oligonucleotide
247 <400> SEQUENCE: 17
248 ctcagaaaaa cttcagggtc agcttgccgt ttttg 35
251 <210> SEQ ID NO: 18
252 <211> LENGTH: 63
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial Sequence
256 <220> FEATURE:
257 <223> OTHER INFORMATION: Synthetic oligonucleotide
260 <220> FEATURE:
261 <221> NAME/KEY: misc_feature
262 <222> LOCATION: (23)..(41)
263 <223> OTHER INFORMATION: n = a, c, g, or t
265 <400> SEQUENCE: 18
W--> 266 cggtgattcc ctcgagcaaa aannnnnnnn nnnnnnnnnn nttttttctag aggtaacagg 60
268 cgc 63
271 <210> SEQ ID NO: 19
272 <211> LENGTH: 31
273 <212> TYPE: DNA
274 <213> ORGANISM: Artificial Sequence
276 <220> FEATURE:
277 <223> OTHER INFORMATION: Synthetic oligonucleotide
279 <400> SEQUENCE: 19
280 gcgcaagctt atagggaatt cgagctcggt a 31
283 <210> SEQ ID NO: 20
284 <211> LENGTH: 31
285 <212> TYPE: DNA
286 <213> ORGANISM: Artificial Sequence

**RAW SEQUENCE LISTING** DATE: 10/05/2006
PATENT APPLICATION: **US/10/526,475B** TIME: 12:39:31

Input Set : **A:\JJ 5203.ST25.txt**
Output Set: **N:\CRF4\10052006\J526475B.raw**

```
     288 <220> FEATURE:
     289 <223> OTHER INFORMATION: Synthetic oligonucleotide
     291 <400> SEQUENCE: 20
     292 gcgctctaga ggtgtttcgt cctttccaca a                                  31
     295 <210> SEQ ID NO: 21
     296 <211> LENGTH: 34
     297 <212> TYPE: DNA
     298 <213> ORGANISM: Artificial Sequence
     300 <220> FEATURE:
     301 <223> OTHER INFORMATION: Synthetic oligonucleotide
     303 <400> SEQUENCE: 21
     304 ctagaaaaac ttcagggtca gcttgccgtt tttg                               34
     307 <210> SEQ ID NO: 22
     308 <211> LENGTH: 34
     309 <212> TYPE: DNA
     310 <213> ORGANISM: Artificial Sequence
     312 <220> FEATURE:
     313 <223> OTHER INFORMATION: Synthetic oligonucleotide
     315 <400> SEQUENCE: 22
     316 tcgacaaaaa gactccagtg gtaatctact tttt                               34
     319 <210> SEQ ID NO: 23
     320 <211> LENGTH: 34
     321 <212> TYPE: DNA
     322 <213> ORGANISM: Artificial Sequence
     324 <220> FEATURE:
     325 <223> OTHER INFORMATION: Synthetic oligonucleotide
     327 <400> SEQUENCE: 23
     328 ctagaaaaag tagattacca ctggagtctt tttg                               34
     331 <210> SEQ ID NO: 24
     332 <211> LENGTH: 21
     333 <212> TYPE: DNA
     334 <213> ORGANISM: Artificial Sequence
W--> 336 <220> FEATURE: Combination RNA with DNA (dT added)
     337 <223> OTHER INFORMATION: Synthetic oligonucleotide;
W--> 340 <220> FEATURE:
     341 <221> NAME/KEY: misc_feature
     342 <222> LOCATION: (20)..(21)
     343 <223> OTHER INFORMATION: n = t
     345 <400> SEQUENCE: 24
W--> 346 cggcaagcug acccugaagn n                                            21
     349 <210> SEQ ID NO: 25
     350 <211> LENGTH: 21
     351 <212> TYPE: DNA
     352 <213> ORGANISM: Artificial Sequence
W--> 354 <220> FEATURE: Combination RNA with DNA (dT added)
     355 <223> OTHER INFORMATION: Synthetic oligonucleotide
W--> 358 <220> FEATURE:
     359 <221> NAME/KEY: misc_feature
     360 <222> LOCATION: (20)..(21)
```

move this to <223> line ← add a semicolon before moving it down.

Per 1.823 of the Sequence Rules, the statement regarding a combined DNA/RNA sequence goes on the <223> line. <220> is a "header" only; it never has a response.

same error

same error in Sequence 26, too

**RAW SEQUENCE LISTING ERROR SUMMARY** DATE: 10/05/2006
PATENT APPLICATION: **US/10/526,475B** TIME: 12:39:32

Input Set : **A:\JJ 5203.ST25.txt**
Output Set: **N:\CRF4\10052006\J526475B.raw**

FYI

**Please Note:**
**Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.**

Seq#:5; N Pos. 19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37
Seq#:18; N Pos. 23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41
Seq#:24; N Pos. 20,21
Seq#:25; N Pos. 20,21
Seq#:26; N Pos. 20,21

**VERIFICATION SUMMARY** DATE: 10/05/2006
PATENT APPLICATION: **US/10/526,475B** TIME: 12:39:32

Input Set : **A:\JJ 5203.ST25.txt**
Output Set: **N:\CRF4\10052006\J526475B.raw**

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:336 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:346 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:354 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:372 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0